

## ARTIFACT-FREE DISPLAYING OF MPEG-2 VIDEO IN THE PROGRESSIVE-REFRESH MODE

## ABSTRACT

- 5 A method and apparatus for decoding and displaying a progressive refresh bitstream, such as, for example, Motorola/GI HITS bitstream, is provided. The method avoids displaying artifacts caused by displaying incompletely decoded pictures after channel acquisition. After the channel acquisition, an
- 10 entry picture, a P-picture with the refreshed I-slices at the top of the picture, is first displayed with all pixels below the refreshed I-slices zeroed (blackened) out. Then the subsequent P-pictures are displayed with all pixels below their respective refreshed I-slices zeroed out. Once a P-picture has been
- 15 completely decoded, normal decoding process is started.

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